



Supporting Information

for *Adv. Sci.*, DOI: 10.1002/advs.201903616

**BRCA1 Deficiency Impairs Mitophagy and Promotes
Inflammasome Activation and Mammary Tumor Metastasis**

Qiang Chen, Josh Haipeng Lei, Jiaolin Bao, Haitao Wang,
Wenhui Hao, Licen Li, Cheng Peng, Takaaki Masuda, Kai
Miao, Jun Xu, Xiaoling Xu, and Chu-Xia Deng**

Table S4. Information of clinical data from METABRIC***BRCA1* mutant breast cancer patients**

	Case ID	Protein Change	Mutation Type	Cancer Type
1	MB.0346	R1737T	Missense_Mutation	Breast Invasive Ductal Carcinoma
2	MB.0420	V1654Cfs*4	Frame_Shift_Del	Breast Invasive Ductal Carcinoma
3	MB.0532	Y1127H	Missense_Mutation	Breast Invasive Ductal Carcinoma
4	MB.0320	D420G	Missense_Mutation	Breast Invasive Lobular Carcinoma
5	MB.4627	S153R	Missense_Mutation	Breast Mixed Ductal and Lobular Carcinoma
6	MB.4674	G1087E	Missense_Mutation	Breast Invasive Ductal Carcinoma
7	MB.5152	M1827L	Missense_Mutation	Breast Invasive Ductal Carcinoma
8	MB.5323	E880Rfs*13	Frame_Shift_Del	Breast Invasive Ductal Carcinoma
9	MB.5232	X1453_splice	Splice_Site	Breast Invasive Ductal Carcinoma
10	MB.5088	I946V	Missense_Mutation	Breast Invasive Ductal Carcinoma
11	MB.5107	E1494Kfs*11	Frame_Shift_Del	Breast Invasive Lobular Carcinoma
12	MB.5070	T150Pfs*13	Frame_Shift_Del	Breast Invasive Ductal Carcinoma
13	MB.5062	L1439F	Missense_Mutation	Breast Invasive Ductal Carcinoma
14	MB.5166	R613K	Missense_Mutation	Breast Invasive Ductal Carcinoma
15	MB.5602	E1836K	Missense_Mutation	Breast Invasive Ductal Carcinoma
16	MB.2735	W372R	Missense_Mutation	Breast Invasive Ductal Carcinoma
17	MB.2617	Y1127H	Missense_Mutation	Breast Invasive Ductal Carcinoma
18	MB.2922	I216S	Missense_Mutation	Breast Invasive Ductal Carcinoma
19	MB.4828	C305S	Missense_Mutation	Breast Invasive Lobular Carcinoma
20	MB.4660	X1760_splice	Splice_Site	Breast Invasive Ductal Carcinoma
21	MB.6248	X1663_splice	Splice_Site	Breast Invasive Ductal Carcinoma
22	MB.6098	D1692N	Missense_Mutation	Breast Invasive Ductal Carcinoma
23	MB.6047	E1287K	Missense_Mutation	Breast Invasive Ductal Carcinoma
24	MB.6271	L502Sfs*2	Frame_Shift_Del	Breast Invasive Lobular Carcinoma
25	MB.5428	S1266T	Missense_Mutation	Breast Invasive Ductal Carcinoma
26	MB.6060	S282*	Nonsense_Mutation	Breast Invasive Ductal Carcinoma
27	MB.6178	V452A	Missense_Mutation	Breast Invasive Ductal Carcinoma
28	MB.6062	I171M	Missense_Mutation	Invasive Breast Carcinoma
29	MB.5164	E143K	Missense_Mutation	Breast Invasive Ductal Carcinoma
30	MB.7048	F709Sfs*29	Frame_Shift_Ins	Breast Invasive Ductal Carcinoma
31	MB.7038	Q202Kfs*32	Frame_Shift_Del	Breast Invasive Ductal Carcinoma
32	MB.7032	K1667Qfs*11	Frame_Shift_Ins	Breast Invasive Ductal Carcinoma
33	MB.7040	R1074T	Missense_Mutation	Breast Invasive Ductal Carcinoma
34	MB.0163	S1551C	Missense_Mutation	Breast Invasive Ductal Carcinoma
35	MB.0234	E914K	Missense_Mutation	Breast Invasive Lobular Carcinoma
36	MB.5465	D560Efs*6	Frame_Shift_Ins	Breast Invasive Ductal Carcinoma

TP53 mutant breast cancer patients

	Case ID	Protein Change	Cancer Type	Mutation Type
1	MB.0164	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
2	MB.0102	R175H	Missense_Mutation	Breast Invasive Lobular Carcinoma
3	MB.0516	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
4	MB.0585	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
5	MB.0115	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
6	MB.0608	R175H	Missense_Mutation	Invasive Breast Carcinoma
7	MB.5259	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
8	MB.5292	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
9	MB.5560	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
10	MB.5294	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
11	MB.3067	R175H	Missense_Mutation	Invasive Breast Carcinoma
12	MB.0476	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
13	MB.3383	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
14	MB.7104	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
15	MB.7158	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
16	MB.7165	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
17	MB.7150	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
18	MB.2833	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
19	MB.2645	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
20	MB.4865	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
21	MB.4860	R175H	Missense_Mutation	Breast Invasive Lobular Carcinoma
22	MB.4949	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
23	MB.6010	R175H	Missense_Mutation	Invasive Breast Carcinoma
24	MB.4005	R175H	Missense_Mutation	Breast Invasive Lobular Carcinoma
25	MB.4270	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
26	MB.4250	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
27	MB.4333	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
28	MB.6036	R175H	Missense_Mutation	Invasive Breast Carcinoma
29	MB.6144	R175H	Missense_Mutation	Invasive Breast Carcinoma
30	MB.6080	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
31	MB.6237	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
32	MB.0469	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
33	MB.0149	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma
34	MB.0652	R175H	Missense_Mutation	Breast Invasive Ductal Carcinoma